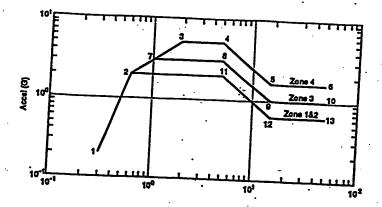


Earthquake Synthesized Waveform - VERTEQII

Fig 1A



Coordinate Point	(EF)		Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)
<b></b>	Zones 1	and 2		Zor	ACCOUNTS (P)
	0.3	0.2			
2	0.6	2.0		0.3	0.2
11	5.0		2	0.6	2.0
12		2.0	3	20	5.0
	15.0	0.6	4	5.0	
13	50.0	0.6			5.0
	Zone		<del></del>	15.0	1.6
. 1			6	50.0	1.6
	0.3	0.2			
2	0.6	2.0			
7	1.0	3.0			
8	5.0	3.0			
9	15.0	1.0			
10	50.0	1.0			

Fig 18

•:

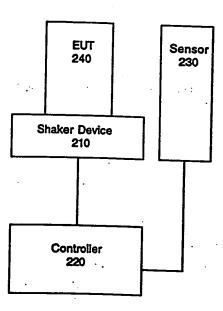
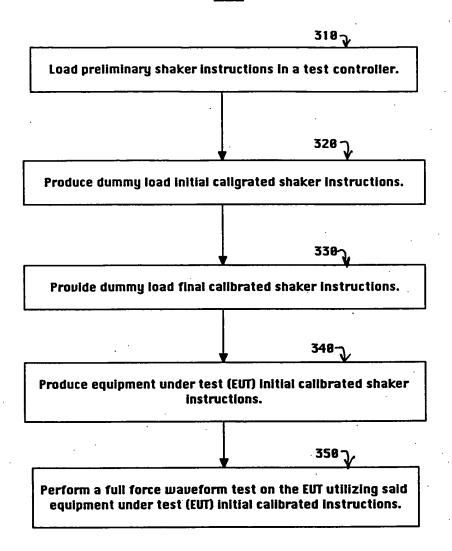
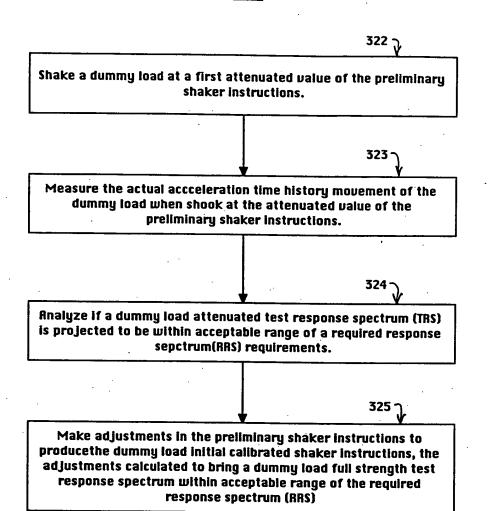


FIG 2



F16. 3A



333 7

Measure the actual acceleration time history movement of the dummy load when shook at the full strength value of the dummy load initial calibrated shaker instructions.

334 7

Determine if the dummy load full strength test response spectrum (TRS) is within an acceptable range of the required response spectrum (RRS).

335 -

Make adujustments in the dummy load initial calibrated shaker instructions to produce the dummy load final calibrated shaker instructions, the adjustments calculated to brnig a test respons spectrum (TRS) within an acceptable range of the required response spectrum (RRS).

FIG 3C

 Shake equipment under test at a second attenuated value of the dummy load final calibrated shaker instructions.

343

Measure the actual acceleration time history movement of the equipment under test when shook at the attenuated value of the predetermined waveform.

344 7

Determine if the equipment under test attenuated test response spectrum (TRS) is within an acceptable range of the required repsonse spectrum (RRS).

**345**  $\gamma$ 

Make adjustments to the dummy load final calibrated shaker instructions to produce the equipment under test attenuated shaker instructions if the dummy load full strength test response spectrum (TRS) is not within an acceptable range of the required response spectrum (RRS).

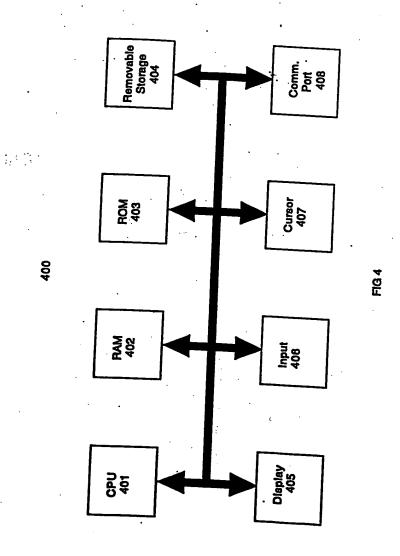
Shake equipment under test at a full strength value of the equipment under test final calibrated shaker instructions.

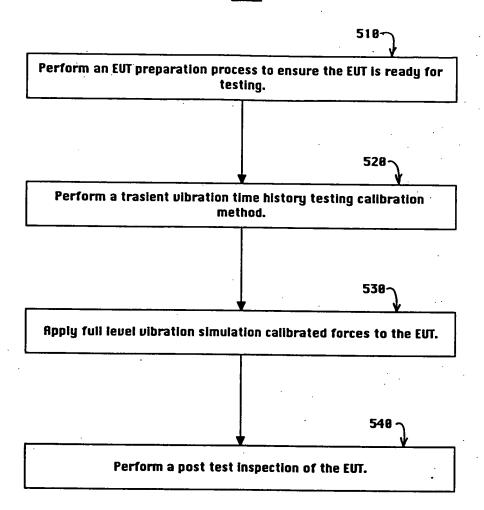
353 

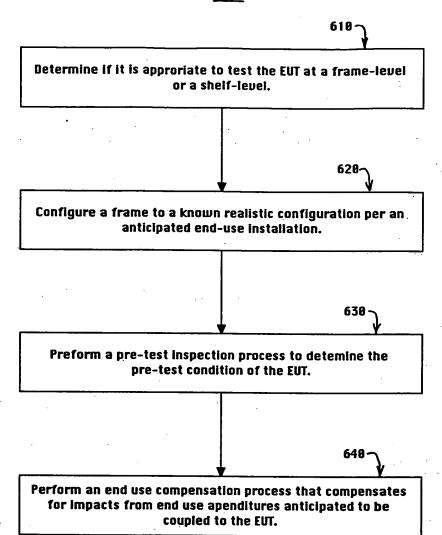
Measure the actual acceleration time history movement of the equipment under test when shook at the full strength value of the predetermined waveform.

354 

Determine if the test response spectrum (TRS) is wihin acceptable range of the required response spectrum (RRS).

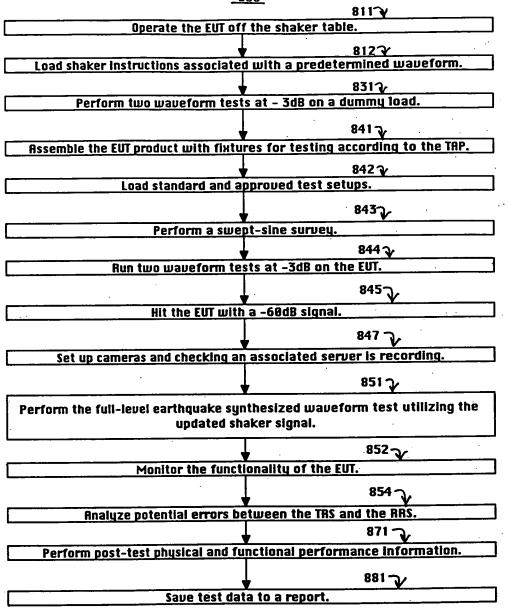






. Test Parameter	Performance Criteria	Test Tolerance		
VERTEQII waveform	TRS shall meet or exceed	TRS less than 30% over RRS from 1 to 7		
Acceleration	synthesized waveform 1.6 G peak for 30 seconds	Not Applicable		
data sample rate	200 Hz			
est frame system		Not Applicable		
veight oad-cell torque	435 lbs (approximately) up to 65 ft-lbs	+/- 5%		
isplacement		+/- 1 ft-lb		
rack top)	76.2 mm maximum	₩-5 mm		

FIG 7



F16 8

Test Parameter	Performance Criteria	Test Tolerance
Frequency Range	1 to 50 Hz	
Sweep Rate	1.0 octave/minute	Not Applicable
Acceleration	0.2 G's	Not Applicable
data sample rate .	200 17	+/- 0.02 G's
est frame system weight		Not Applicable
	435 lbs (approximately)	+/- 5%

FIGG

: Model #	Code 1	Vame	Bush	ess Uni	t BUC	onta	
Date	Vertical		Front-to-Back		ŀ	<u>-</u>	
Time	<del> </del>		in.		1		
Test Engineer or Technician	<b></b>						
Frame Top Resonant Frequency (Hz)		7			-		
EUT Resonant Frequency (Hz)	-	+				<u> </u>	
Peak Acceleration Response it the top of the Frame (G)		+					
isplacement (inches or mm)		+			•		
oors, Covers, Panels		+		[			
racks, Buckles, Visual spection	. • .	+					
lit or Anchor Torque values -ib)(4)	•	╁	<u>.</u>			_	
ed Cell values (lb, all 4)		+		1	•		
D Status during the Test		+-				$\neg$	
gnostic or software ction during the Test		+	<u></u>	1		$\exists$	
mnents	<u> </u>	<u> </u>	·	- 1.		- 1	

FIG 10